	Application No.	Applicant(s)
Notice of Allowability	10/658,901 Examiner	RICHARDSON, NICHOLAS J. Art Unit
	- Lammer	Artonit
	Shahid Al Alam	2162
The MAILING DATE of this communication and All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOL-NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	IS (OR REMAINS) CLOSED in 85) or other appropriate communication is second communication.	n this application. If not included unication will be mailed in due course. THIS
1. This communication is responsive to <u>argument filed on</u>	May 10, 2007.	
2. \boxtimes The allowed claim(s) is/are $\underline{1, 3 - 13 \text{ and } 17 - 22}$.		
3. ☐ Acknowledgment is made of a claim for foreign priority a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents h	ave been received.	
2. Certified copies of the priority documents h	···	
3. Copies of the certified copies of the priority	documents have been received	d in this national stage application from the
International Bureau (PCT Rule 17.2(a)). * Certified copies not received:		
· —		
Applicant has THREE MONTHS FROM THE "MAILING DAT noted below. Failure to timely comply will result in ABANDO THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be su INFORMAL PATENT APPLICATION (PTO-152) which is		
5. CORRECTED DRAWINGS (as "replacement sheets") r	must be submitted.	
(a) ☐ including changes required by the Notice of Draftsp	person's Patent Drawing Review	w (PTO-948) attached
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date	·	
(b) ☐ including changes required by the attached Examir Paper No./Mail Date	ner's Amendment / Comment or	r in the Office action of
Identifying indicia such as the application number (see 37 CF each sheet. Replacement sheet(s) should be labeled as such		
6. DEPOSIT OF and/or INFORMATION about the de attached Examiner's comment regarding REQUIREMENT	posit of BIOLOGICAL MATI	ERIAL must be submitted. Note the DLOGICAL MATERIAL.
	•	
Attachment(s)	•	
1. Notice of References Cited (PTO-892)	5. Notice of In	formal Patent Application
2. Notice of Draftperson's Patent Drawing Review (PTO-94		ummary (PTO-413),
3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date <u>04102007</u>		/Mail Date Amendment/Comment
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	sit 8. 🛭 Examiner's	Statement of Reasons for Allowance
	9.	SAlam
		SHAHID ALAM PRIMARY EXAMINER

U.S. Patent and Trademark Office PTOL-37 (Rev. 08-06)

DETAILED ACTION

1. Claims 1 and 3 – 22 are pending in this Office action.

Drawings

2. The drawings were received on June 30, 2006. These drawings are acceptable.

Election/Restrictions

- 3. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 1, 3 13 and 17 22, drawn to cascaded network packet search engines, classified in class 707, subclass 6.
 - II. Claims 14 16, drawn to operating a network processing unit coupled to a plurality of network search engines, classified in class 709, subclass 218.

The inventions are distinct, each from the other because of the following reasons:

Inventions as listed in Group I and Group II are related as subcombinations

disclosed as usable together in a single combination. The subcombinations are distinct

if they do not overlap in scope and are not obvious variants, and if it is shown that at

least one subcombination is separately usable. In the instant case, subcombination has

separate utility such as follow:

Group I teaches for providing cascaded tries-based network packet search engines while Group II teaches for operating a network processing unit coupled to a plurality of network packet search engines.

See MPEP § 806.05(d).

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The examiner has required restriction between subcombinations usable together. Where applicant elects a subcombination and claims thereto are subsequently found allowable, any claim(s) depending from or otherwise requiring all the limitations of the allowable subcombination will be examined for patentability in accordance with 37 CFR 1.104. See MPEP § 821.04(a). Applicant is advised that if any claim presented in a continuation or divisional application is anticipated by, or includes all the limitations of, a claim that is allowable in the present application, such claim may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application.

Because these inventions are independent or distinct for the reasons given above and there would be a serious burden on the examiner if restriction is not required because the inventions have acquired a separate status in the art in view of their different classification, restriction for examination purposes as indicated is proper.

Because these inventions are independent or distinct for the reasons given above and there would be a serious burden on the examiner if restriction is not required because the inventions require a different field of search (see MPEP § 808.02), restriction for examination purposes as indicated is proper.

Because these inventions are independent or distinct for the reasons given above and there would be a serious burden on the examiner if restriction is not required because the inventions have acquired a separate status in the art due to their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

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During a telephone conversation with Robert D. McCutcheon on June 15, 2007 a provisional election was made without traverse to prosecute the invention of Group I, claims 1, 3 – 13 and 17 – 22. Affirmation of this election must be made by applicant in replying to this Office action. Claims 14 – 16 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

EXAMINER'S AMENDMENT

4. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Robert D. McCutcheon on June 15, 2007.

The application has been amended as follows:

In the claim:

Please delete claims 14 – 16.

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Allowable Subject Matter

5. Claims 1, 3 – 13 and 17 – 22 are allowed.

The following is an examiner's statement of reasons for allowance:

The prior art of record either alone or in combination does not teach or fairly suggest determining at one of the network packet search engines whether its determined longest prefix match comprises an overall longest prefix match among the other determined longest prefix matches of the other network packet search engines.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shahid Al Alam whose telephone number is (571) 272-4030. The examiner can normally be reached on Monday-Thursday 8:00 A.M.- 4:00 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John E. Breene can be reached on (571) 272-4107. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Shahid Al Alam Primary Examiner Art Unit 2162

June 21, 2007